

Transistors with Built-in Resistor DRC2543E0L

## DRC2543E0L Silicon NPN epitaxial planar type

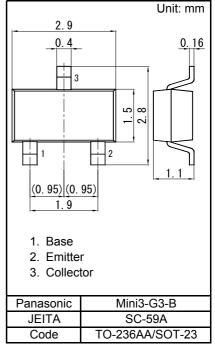
For digital circuits Complementary to DRA2543E

## Features

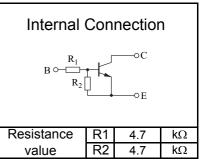
- Low collector-emitter saturation voltage Vce(sat)
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: TK
- Packaging

1

Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)



Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	VCBO	50	V	
Collector-emitter voltage (Base open)	VCEO	50	V	
Collector current	IC	500	mA	
Total power dissipation	PT	200	mW	
Junction temperature	Tj	150	О°	
Operating ambient temperature	Topr	-40 to +85	С°	
Storage temperature	Tstg	-55 to +150	С°	



Electrical Characteristics 1	Ta = 25 °C ± 3 °C
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■ Absolute Maximum Ratings Ta = 25 °C

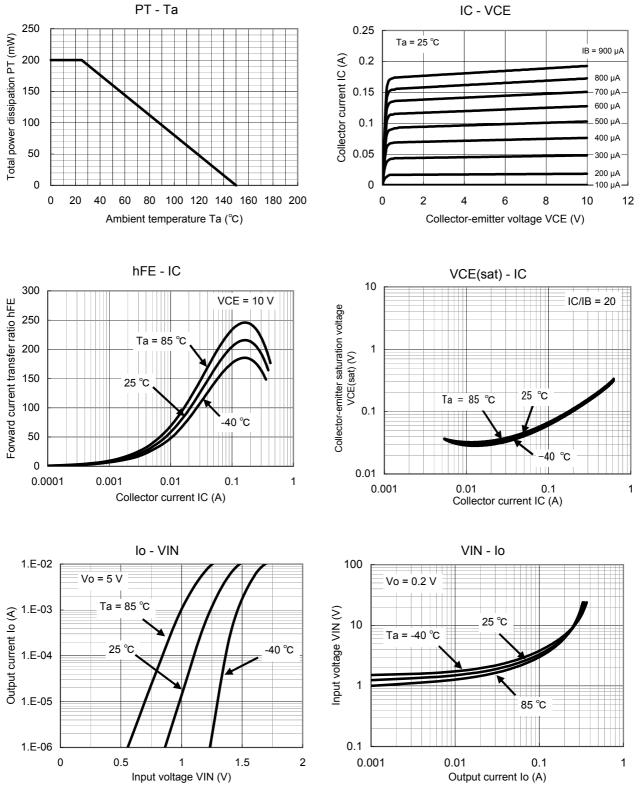
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	VCBO	IC = 10 μA, IE = 0	50			V
Collector-emitter voltage (Base open)	VCEO	IC = 2 mA, IB = 0	50			V
Collector-base cutoff current (Emitter open)	ICBO	VCB = 50 V, IE = 0			1	μA
Collector-emitter cutoff current (Base open)	ICEO	VCE = 50 V, IB = 0			1	μA
Emitter-base cutoff current (Collector open)	IEBO	VEB = 6 V, IC = 0			2	mA
Forward current transfer ratio	hFE	VCE = 10 V, IC = 100 mA	50			-
Collector-emitter saturation voltage	VCE(sat)	IC = 100 mA, IB = 5 mA			0.25	V
Input voltage	Vi(on)	VCE = 0.2 V, IC = 50 mA	3.6			V
	Vi(off)	VCE = 5 V, IC = 100 µA			0.7	V
Input resistance	R1		-30%	4.7	+30%	kΩ
Resistance ratio	R1/R2		0.8	1.0	1.2	-

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.

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Technical Data (reference)



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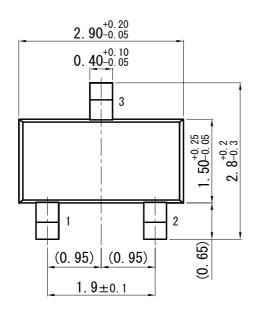
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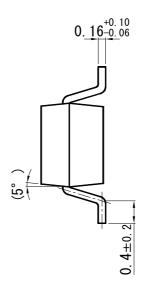


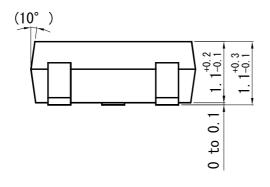
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Mini3-G3-B

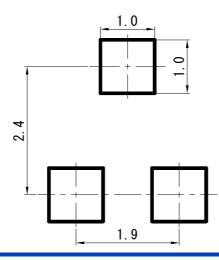
Unit: mm







Land Pattern (Reference) (Unit: mm)



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Established : 2010-01-29 Revised : 2014-03-07

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